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c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract			
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs			
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Bib Data Sheet								
SERIAL NUMBER 09/926,568	FILING DATE 11/19/2001 RULE	CLASS 525		GROUP ART UNIT 1712		ATTORNEY DOCKET NO. 215850US0PCT		
Bernhard Mohr, Heidelberg, GERMANY; Dieter Boeckh, Limburgerhof, GERMANY; Oliver Borzyk, Speyer, GERMANY; *** CONTINUING DATA **********************************								
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ADDRESS 22850								
TITLE Polymers that contain alcoxylated, condensed alkaline amino acids and method of producing said polymers								
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Alkoxylated, condensed basic amino acid-containing polymers and their production 371 A RG/FR/04943 fle of 19/2000 Chis application is a 371 A RG/FR/04943 fle of 19/1999

5 Technical Field flesh under 365 (c) of 09/34, 116 flesh of 19/1999

The present invention relates to alkoxylated, condensed basic amino acid-containing polymers and a process for their production.

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Background of the invention

Ethoxylated polyamines, especially polyethyleneimines and processes for their production are known, cf. U.S. Patent 15 3,313,736, U.S. Patent 4,891,160, U.S. Patent 4,551,506 and WO-A-97/23546. The ethoxylated polyamines are for example used in cleaning compositions.

DE-A-2 227 546 relates to the use of alkoxylated 20 polyalkyleneimines for the dehydration of crude oils. The alkoxylated polyalkyleneimines are prepared by a two-stage process in which, in the first stage, one mole of an alkylene oxide, based on one mole of NH groups in the polyethyleneimine, is reacted with a polyalkylenepolyamine in the presence of water 25 with formation of hydroxyalkyl groups. In the second process stage water is initially removed from the reaction mixture, an alkaline catalyst added, alkylene oxide forced in and the reaction carried out under pressure at temperatures between 125°. and 135°C. From 10 to 300 alkylene oxide units are added per NH 30 group. Alternatively, the alkoxylation can be carried out in a single stage, by forcing in alkylene oxide in the presence of aqueous or anhydrous alkaline catalysts and causing it to react under pressure with polyethyleneimines at temperatures between 125 and 135°C.

EP-A-0,112,593 relates to detergent formulations containing ethoxylated amines. In this case the preparation of the alkoxylated amines likewise takes place in two stages, a hydroxyethylated polyethyleneimine being produced in the first stage by the action of ethylene oxide and the necessary amount of ethylene oxide being added in the second stage by further addition of ethylene oxide at temperatures ranging from 130 to 140°C under super-atmospheric pressure. The degree of ethoxylation is for example from 15 to 42.